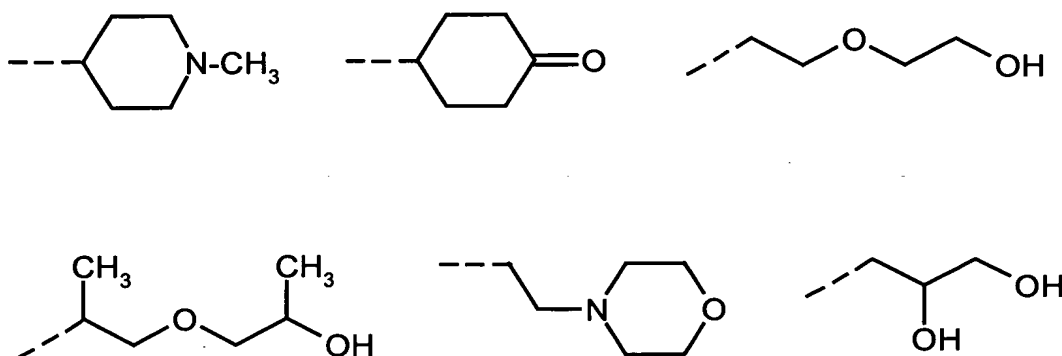


alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl-, (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl, (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl-, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl, (C<sub>3</sub>-C<sub>12</sub>)-cycloalkyl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl-, and oxo, where a 5-membered to 7-membered saturated or unsaturated ring, which is unsubstituted or is substituted by R<sup>3</sup> and which is a carbocyclic ring or a heterocyclic ring containing one or two ring nitrogen atoms, can be fused to a carbon-carbon bond in the (C<sub>2</sub>-C<sub>9</sub>)-alkylene radical;

(R<sup>3</sup>) is (C<sub>1</sub>-C<sub>10</sub>)-alkyl, (C<sub>3</sub>-C<sub>20</sub>)-monocycloalkyl, (C<sub>5</sub>-C<sub>20</sub>)-bicycloalkyl, (C<sub>5</sub>-C<sub>20</sub>)-tricycloalkyl, (C<sub>1</sub>-C<sub>8</sub>)-alkoxy, (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>4</sub>)-alkyl-, (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl, (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl-(C<sub>1</sub>-C<sub>4</sub>)-alkyl-, halogen, trifluoromethyl, cyano, hydroxyl, oxo, nitro, amino, -NH-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, -N((C<sub>1</sub>-C<sub>4</sub>)-alkyl)<sub>2</sub>, -NH-CO-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, or -CO-(C<sub>1</sub>-C<sub>4</sub>)-alkyl;

(R<sup>4</sup>) is hydrogen, (C<sub>1</sub>-C<sub>6</sub>)-alkyl-CO-O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl-, or (C<sub>1</sub>-C<sub>6</sub>)-alkyl, which is unsubstituted or is substituted by a radical selected from the group consisting of hydroxyl, (C<sub>1</sub>-C<sub>4</sub>)-alkoxy, (C<sub>1</sub>-C<sub>4</sub>)-alkyl-S(O)<sub>2</sub>-, -NR<sup>7</sup>R<sup>7'</sup>, and -N<sup>+</sup>R<sup>7</sup>R<sup>7'</sup>R<sup>7''</sup> Q<sup>-</sup>, where R<sup>7</sup>, R<sup>7'</sup>, and R<sup>7''</sup> independently of one another are hydrogen, (C<sub>1</sub>-C<sub>6</sub>)-alkyl, (C<sub>5</sub>-C<sub>14</sub>)-aryl, or (C<sub>5</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl- and Q<sup>-</sup> is a physiologically tolerable anion, or in which R<sup>4</sup> is one of the radicals



in which the bonds, via which the radicals are bonded, are indicated by dashed lines;

(R<sup>5</sup>) is (C<sub>1</sub>-C<sub>20</sub>)-alkyl, (C<sub>3</sub>-C<sub>20</sub>)-monocycloalkyl, (C<sub>5</sub>-C<sub>20</sub>)-bicycloalkyl, (C<sub>5</sub>-C<sub>20</sub>)-tricycloalkyl, (C<sub>6</sub>-C<sub>14</sub>)-aryl, (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl, (C<sub>6</sub>-C<sub>14</sub>)-aryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl- or (C<sub>5</sub>-C<sub>14</sub>)-heteroaryl-(C<sub>1</sub>-C<sub>6</sub>)-alkyl-, wherein one or more carbon atoms of the alkyl radical, the monocycloalkyl radical, the bicycloalkyl radical, and the tricycloalkyl radical is optionally

replaced by identical or different atoms selected from the group consisting of nitrogen, oxygen, and sulfur, and wherein the aryl radical, the heteroaryl radical, the alkyl radical, the monocycloalkyl radical, the bicycloalkyl radical, and the tricycloalkyl radical each is unsubstituted or is substituted by one, two, or three radicals  $R^3$ ;

*no*  $R^6$  is hydrogen,  $(C_1-C_6)$ -alkyl-O-CO-, hydroxyl,  $(C_1-C_6)$ -alkyl-O-CO-O-, or nitro;  
and

*X* is a nucleophilically substitutable leaving group;

in all their stereoisomeric forms and mixtures thereof in all ratios.

24. (New) The compound of claim 23, wherein X is selected from the group consisting of hydroxyl, halogen, alkoxy, and aryloxy.

25. (New) The compound of claim 24, wherein X is hydroxyl.

*A'*  
*improper dep*  
26. (New) The compound of claim 24, wherein X is selected from the group consisting of chlorine, bromine, methoxy, ethoxy, phenoxy, pentafluorophenoxy, phenylthio, methylthio, 2-pyridylthio, a radical of a nitrogen heterocycle bonded via a nitrogen atom.

27. (New) The compound of claim 23, wherein X is selected from the group consisting of 1-imidazolyl,  $((C_1-C_4)$ -alkyl)-O-CO-O-, and tolylsulfonyloxy.

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